

Exhibit B-3: Fourth-Grade Mathematics Performance, by Subtopic
Average Percent Correct

Meaning of Whole Numbers	Integers & Whole Number Operations	Common Fractions	Decimal Fractions	Estimating Quantity & Size	Rounding & Estimating Computations	Measurement Units
Higher than FiW	Same as FiW	Same as FiW	Higher than FiW	Higher than FiW	Same as FiW	Higher than FiW
Korea 88.1	Korea 82.5	Singapore 71.8	Singapore 83.2	Japan 78.0	Korea 76.8	Japan 76.5
	Japan 80.2	First in the World 65.7	Korea 75.0	Hong Kong 70.5	Japan 74.8	Korea 72.1
Same as FiW	Singapore 79.2	Hong Kong 65.3	Hong Kong 72.6	Czech Republic 67.9	Hong Kong 74.8	Netherlands 72.0
First in the World 81.7	First in the World 78.6	Japan 62.5	Japan 71.3	Hungary 67.3	Singapore 74.3	Czech Republic 68.2
Singapore 81.6	Hong Kong 76.9	Korea 61.5		Korea 67.0	First in the World 73.8	Hong Kong 67.6
Japan 79.9	Czech Republic 74.4	Hungary 61.2	Same as FiW	Netherlands 65.9	Netherlands 68.7	Hungary 66.3
		Netherlands 60.2	First in the World 59.7	Singapore 65.3	Hungary 68.6	
Lower than FiW	Lower than FiW	Lower than FiW	Lower than FiW	Australia 61.2	Czech Republic 68.1	Same as FiW
Hong Kong 76.4	Netherlands 73.2	United States 53.7	Netherlands 47.1	Norway 60.6	United States 67.2	Singapore 61.3
Hungary 74.5	Hungary 71.5	Israel 53.3	United States 46.8			Australia 60.2
Netherlands 73.3	United States 67.6	Australia 52.0	INTERNATIONAL 44.6	Same as FiW	Lower than FiW	Norway 60.0
Czech Republic 72.9	Israel 66.3	Canada 50.4	Australia 43.7	INTERNATIONAL 57.2	Canada 61.6	First in the World 58.0
Israel 69.8	INTERNATIONAL 64.1	Czech Republic 49.7	Thailand 43.6	First in the World 52.9	Israel 61.2	INTERNATIONAL 56.8
United States 69.8	Canada 61.5	INTERNATIONAL 50.0	Canada 41.5	England 52.2	Australia 59.4	
Australia 68.9	Australia 61.5	England 49.1	Czech Republic 40.1	New Zealand 51.9	INTERNATIONAL 55.2	Lower than FiW
Canada 68.7	Norway 57.6	Thailand 46.4	Hungary 36.4	Canada 50.7	New Zealand 47.9	England 52.3
INTERNATIONAL 65.9	England 53.1	New Zealand 45.3	Israel 34.2	Israel 50.5	England 47.7	Canada 51.7
Norway 61.4	Thailand 52.7	Norway 39.2	England 32.0	Thailand 49.8	Norway 46.4	Israel 51.0
New Zealand 59.1	New Zealand 50.8		Norway 28.9	United States 47.1	Thailand 39.1	New Zealand 49.7
England 59.0			New Zealand 26.3			United States 48.0
Thailand 57.3						Thailand 43.2

Perimeter, Area, & Volume	Geometry: Position & Shapes	Symmetry, Congruence, & Similarity	Proportionality	Patterns, Relations, & Functions	Equations & Formulas	Data & Statistics
Higher than FiW	Same as FiW	Same as FiW	Same as FiW	Same as FiW	Higher than FiW	Same as FiW
Singapore 75.9	First in the World 77	Singapore 88.9	Singapore 63.7	Korea 85.0	Korea 85.3	First in the World 86.4
Korea 73.5	Australia 71.9	Korea 88.8	Netherlands 62.7	First in the World 78.0		
		Hong Kong 85.4	First in the World 59.4	Hong Kong 77.8	Same as FiW	Lower than FiW
Same as FiW	Lower than FiW	First in the World 85.2	Korea 58.1	Singapore 77.5	Japan 84.3	Singapore 80.8
Netherlands 71.0	England 70.6	England 80.9	Japan 57.7	Japan 77.2	Singapore 82.6	Korea 79.8
Hong Kong 70.8	Netherlands 70.3	Lower than FiW	Czech Republic 57.3		First in the World 78.5	Japan 78.3
Czech Republic 68.2	Hong Kong 70.1	Australia 79.9	Hungary 55.5	Lower than FiW	Hong Kong 76.9	Hong Kong 75.8
Japan 67.5	Canada 69.4	Japan 79.5	Hong Kong 53.3	Hungary 71.4	Hungary 72.4	Netherlands 75.4
First in the World 65.9	United States 67.7	United States 78.5		Netherlands 70.4	Netherlands 72.2	United States 73.0
Hungary 62.8	Czech Republic 67.4	Canada 78.5	Lower than FiW	Czech Republic 69.8	Lower than FiW	Canada 68.0
Australia 62.2	Japan 66.7	Czech Republic 77.8	Australia 51.3	Australia 69.6	Czech Republic 71.0	Czech Republic 67.1
	Singapore 65.3	Netherlands 74.1	England 46.6	United States 69.1	Israel 66.8	Australia 67.1
Lower than FiW	New Zealand 65.3	Hungary 73.3	Israel 46.0	Canada 67.1	United States 65.6	England 65.8
Canada 59.3	Korea 65.1	INTERNATIONAL 70.5	INTERNATIONAL 45.6	INTERNATIONAL 63.2	INTERNATIONAL 62.0	Israel 63.4
INTERNATIONAL 58.8	Hungary 62.3	New Zealand 69.1	United States 45.5	Israel 62.6	Canada 61.4	New Zealand 61.5
United States 58.3	INTERNATIONAL 61.7	Israel 69.0	Canada 43.8	England 62.0	Australia 60.0	INTERNATIONAL 61.8
Israel 57.1	Israel 59.1	Thailand 66.5	New Zealand 43.7	New Zealand 57.5	Thailand 54.0	Hungary 60.3
England 55.2	Norway 58.3	Norway 56.1	Norway 40.8	Norway 54.7	New Zealand 50.5	Norway 59.5
Norway 54.5	Thailand 47.6		Thailand 34.0	Thailand 52.4	Norway 49.5	Thailand 55.5
New Zealand 49.1					England 48.2	
Thailand 48.2						

SOURCE: U.S. National TIMSS Center, Michigan State University.